

ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP -- 23928-3 POTASSIUM HYDROGEN FLUORIDE, 99% -- 6810-01-446-5535

===== Product Identification =====

Product ID:23928-3 POTASSIUM HYDROGEN FLUORIDE, 99%

MSDS Date:02/01/1998

FSC:6810

NIIN:01-446-5535

MSDS Number: CFLJF

=== Responsible Party ===

Company Name:ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP

Address:1001 W. ST. PAUL AVE

Box:355

City

:MILWAUKEE

State:WI

ZIP:53201

Country:US

Info Phone Num:414-273-3850/FAX -4979

Emergency Phone Num:414-273-3850

CAGE:60928

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

Contract Num:SP0450-99-M-NG62

CAGE:60928

Company Name:FLUKA CHEMICAL CORP.

Box:UNKNOW

CAGE:FLUCH

Company Name:SIGMA CHEMICAL COMPANY

Address:3050 SPRUCE ST

Box:14508

City:ST LOUIS

State:MO

ZIP:63178

Count

ry:US  
Phone:314-771-5765  
CAGE:21076

=====  
Composition/Information on Ingredients  
=====

Ingred Name:POTASSIUM HYDROGEN FLUORIDE  
CAS:7789-29-9  
RTECS #:TS6650000  
= Wt:99.  
Other REC Limits:NONE RECOMMENDED

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:  
KIDNEYS. MAY BE FATAL  
IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. MATERIAL IS  
EXTREMELY DESTRUCTIVE TO MUCOUS MEMBRANES & UPPER RESPIRATORY  
TRACT, EYES & SKIN. INHALATION MAY RESULT IN EDEMA, INFLAMMATION,  
CHEMICAL PNEUMONITIS. INGESTION MAY CAUSE LOWERED BLOOD PRESSURE,  
COMA, DEATH. CHRONIC: ASTHMA.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN.  
Effects of Overexposure:INHALED-BURNING SENSATION, COUGHIN  
G, WHEEZING,  
LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING.  
INGESTED-LOWERED BLOOD PRESSURE, SALIVATION, ABDOMINAL PAIN, FEVER,  
DEATH. SKIN-TISSUE DESTR UCTION. EYES-TISSUE DESTRUCTION.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

=====  
First Aid Measures  
=====

First Aid:EYES-FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES, LIFT  
LIDS. GET IMMEDIATE MEDICAL ATTENTION. SKIN-FLUSH LOTS OF WATER  
WHILE R  
EMOVING CLOTHES. GET IMMEDIATE MEDICAL ATTENTION.  
INHALED-REMOVE TO F RESH AIR. GIVE OXYGEN IF BREATHING DIFFICULT.  
GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED. INGESTED-IF  
CONSCIOUS, RINSE MOUTH WITH WATER. CALL PHYSICIAN IMMEDIATELY.

=====  
Fire Fighting Measures  
=====

Flash Point:NON-COMBUSTIBLE  
Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING  
FIRE CONDITIONS.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING A

PPARATUS &

PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND/OR EYES.

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE AREA. WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS & HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN BAG & HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA & WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing A

gent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:AVOID CONTACT WITH EYES, SKIN OR CLOTHES. AVOID PROLONGED OR REPEATED EXPOSURE. KEEP TIGHTLY CLOSED. STORE IN A COOL, DRY PLACE.

Other Precautions:WASH THOROUGHLY AFTER HANDLING. DO NOT BREATH DUST.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation

:USE ONLY IN CHEMICAL FUME HOOD.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:SAFETY GOGGLES W/FACESHIELD (8-INCH MIN)

Other Protective Equipment:WEAR OTHER PROTECTIVE CLOTHING. SAFETY SHOWER & EYE BATH.

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, SMOKING. LAUNDRER CLOTHES BEFORE REUSE.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:C1

Spec Gravity:2.370

Appearance and Odor:WHITE CRYSTALS.

=====

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid: YES  
ACIDS, BASES, DO NOT STORE IN GLASS.  
Stability Condition to Avoid: HEAT  
Hazardous Decomposition Products: HYDROGEN FLUORIDE.

=====  
Toxicological Information  
=====

Toxicological Information: TOXIC IF SWALLOWED. CAUSES BURNS.

=====  
Ecological Information  
=====

Ecological: DATA NOT YET AVAILABLE.

=====  
Disposal Considerations  
=====

Waste Disposal Methods: CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.